#### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	
To: LEONA L. LAUDER 235 MONTGOMERY STREET SUITE 1026 SAN FRANCISCO, CA 94104-3008	PCT  NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1)  Date of mailing
	(day/month/year) 27 SEP 20115
Applicant's or agent's file reference MST-2390 PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US04/34573	International filing date (day/month/year) 18 October 2004 (18.10.2004)
Applicant BAYER HEALTHCARE	
The applicant is hereby notified that the international sear have been established and are transmitted herewith.	ch report and the written opinion of the International Searching Authority
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the cla	
When? The time limit for filing such amendments is search report.	normally two months from the date of transmittal of the international
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.	
For more detailed instructions, see the notes on the a	accompanying sheet.
	ch report will be established and that the declaration under he International Searching Authority are transmitted herewith.
3. With regard to the protest against payment of (an) addi	itional fee(s) under Rule 40.2, the applicant is notified that:
	en transmitted to the International Bureau together with the applicant's
· - ·	oplicant will be notified as soon as a decision is made.
4. Reminders	
Shortly after the expiration of 18 months from the priority dat Bureau. If the applicant wishes to avoid or postpone publicati	te, the international application will be published by the International ion, a notice of withdrawal of the international application, or of the in Rules 90bis.1 and 90bis.3, respectively, before the completion of the
International Bureau. The International Bureau will send a coppreliminary examination report has been or is to be established before the expiration of 30 months from the priority date.	n the written opinion of the International Searching Authority to the by of such comments to all designated Offices unless an international I. These comments would also be made available to the public but not
examination must be filed if the applicant wishes to postpone the (in some Offices even later); otherwise, the applicant must, with entry into the national phase before those designated Offices.	tof some designated Offices, a demand for international preliminary the entry into the national phase until 30 months from the priority date thin 20 months from the priority date, perform the prescribed acts for
	hs (or later) will apply even if no demand is filed within 19 months.
See the Annex to Form PCT/IB/301 and, for details about the a	applicable time limits, Office by Office, see the PCT Applicant's Guide,

Facsimile No. (703) 305-3230 Form PCT/ISA/220 (January 2004)

Name and mailing address of the ISA/ US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

(See notes on accompanying sheet)

Authorized officer Bell-Harres
MISOOK YU, Ph.D.

Telephone No. 571-27'2-1600

## INTERNATIONAL SEARCH REPORT

International application blo ----

PCT/US04/34573

DUX INO.	1 Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
inventi	gard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed on, the international search was carried out on the basis of:  type of material  a sequence listing
	table(s) related to the sequence listing
b.	format of material
	on paper
	in electronic form
C.	time of filing/furnishing
	contained in the international application as filed
	filed together with the international application in electronic form  furnished subsequently to this Authority for the purposes of search
2.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3	Additional comments:

Form PCT/ISA/210 (continuation of first sheet(1)) (April 2005)

## INTERNATIONAL SEARCH REPORT

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PCT/US04/34573

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : G01N 33/534; C12Q 1/68	
US CL: 436/518, 501; 435/6, 7.1 According to International Patent Classification (IPC) or to both nat	ional elassification and IDC
B. FIELDS SEARCHED	donal classification and if C
Minimum documentation searched (classification system followed b U.S.: 436/518, 501; 435/6, 7.1	y classification symbols)
Documentation searched other than minimum documentation to the	extent that such documents are included in the fields searched
Electronic data base consulted during the international search (name Please See Continuation Sheet	e of data base and, where practicable, search terms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT	
Category * Citation of document, with indication, where a	ppropriate, of the relevant passages Relevant to claim No.
X US 6,027,887A(ZAVADA et al) 22February 2000 (2 abstract, columns 3-5	2.02.2000), especially SEQ ID NO:1, 1-24
Further documents are listed in the continuation of Box C.	See patent family annex.
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of</li> </ul>	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
particular relevance  "E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as	when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be
specified)  "O" document referring to an oral disclosure, use, exhibition or other means	considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
10 September 2005 (10.09.2005)	
Name and mailing address of the ISA/US  Mail Stop PCT, Attn: ISA/US  Commissioner for Patents	MISOOK YU, Ph.D.
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Telephone No. 571-272-1600

Form PCT/ISA/210 (second sheet) (April 2005)

INTERNATIONAL SEARCH REPORT	International application blo PCT/US04/3457:
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Continuation of B. FIELDS SEARCHED Item 3: nucleic acid sequence databases, Dialog (155), West (USPT, DWPI) Search terms: SEQ ID NO:1, MN, prognosis, preneoplastic and neoplastic diseases	·
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## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY		
To: LEONA L. LAUDER 235 MONTGOMERY STREET		PCT
SUITE 1026 SAN FRANCISCO, CA 94104-3008		UTTEN OPINION OF THE ONAL SEARCHING AUTHORITY
		(PCT Rule 43bis.1)
	Date of mailing (day/month/year)	27 SEP 2005
Applicant's or agent's file reference	FOR FURTHER	ACTION See paragraph 2 below
MST-2390 PCT	4: -151: -14 (1 ( -41(	
International application No. Internat	tional filing date (day/month/year)	Priority date (day/month/year)
PCT/US04/34573 18 Octo International Patent Classification (IPC) or both na	ober 2004 (18.10.2004)	16 October 2003 (16.10.2003)
IPC(7): G01N 33/534; C12Q 1/68 and US C1.: 436   Applicant	6/518, 501; 435/6, 7.1	
BAYER HEALTHCARE		1
BATERIEAETHORE		
This opinion contains indications relating to the contains indications relating to the contains indications.	he following items:	
Box No. I Basis of the opinion		
Box No. II Priority		
Box No. III Non-establishment o	of opinion with regard to novelty, inve	entive step and industrial applicability
Box No. IV Lack of unity of inve	ention	
l	under Rule 43bis.1(a)(i) with regard ons and explanations supporting such s	to novelty, inventive step or industrial statement
Box No. VI Certain documents of	cited	
Box No. VII Certain defects in th	ne international application	
Box No. VIII Certain observations	s on the international application	
2. FURTHER ACTION		
If a demand for international preliminary ex International Preliminary Examining Author	ority ("IPEA") except that this doe A and the chosen IPEA has notified	l be considered to be a written opinion of the s not apply where the applicant chooses an the International Bureau under Rule 66.1bis(b) dered.
If this opinion is, as provided above, consid- IPEA a written reply together, where approp of Form PCT/ISA/220 or before the expiration For further options, see Form PCT/ISA/220.	oriate, with amendments, before the e	PEA, the applicant is invited to submit to the xpiration of 3 months from the date of mailing whichever expires later.
3. For further details, see notes to Form PCT/IS	A/220.	
Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Date of completion of this opinion 10 September 2005 (10.09.2005)	MISOOK YU, Ph.D
P.O. Box 1450 Alexandria, Virginia 22313-1450		Telephone No. 571-272-1600

Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (April 2005)

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International annication No \_\_\_\_\_
PCT/US04/34573 — \_ \_ \_

Box No	o. I Basis of this opinion
	regard to the language, this opinion has been established on the basis of:
$\boxtimes$	the international application in the language in which it was filed
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With invent	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	On paper
	in electronic form
c.	time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
3. 🔀	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additi	onal comments:
	$m{\cdot}$
	TS A /227/Pau No. D. (A - 1) 2005)

Form PCT/ISA/237(Box No. I) (April 2005)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International amplication No. . PCT/US04/345p8

Novelty (N)  Claims NONE  Claims 1-24  Industrial applicability (IA)  Claims 1-24  Claims NONE  Claims NONE  Claims NONE  Claims NONE  Claims NONE  Citations and explanations:  aims 1-24 lack novelty under PCT Article 33(2) as being anticipated by US 6,027,887 (Zavada et al). Zavada et al teach SE identical to the instant SEQ ID NO:1 recited in the instant claim 1, and is MN/CA9 centre plastic/neoplastic	et al., al.
Inventive step (IS)  Claims NONE  Claims 1-24  Industrial applicability (IA)  Claims 1-24  Claims NONE  Citations and explanations:  aims 1-24 lack novelty under PCT Article 33(2) as being anticipated by US 6,027,887 (Zavada et al). Zavada et al teach SE identical to the instant SEQ ID NO:1 recited in the instant claim 1, and is MN/CA9 cDNA from MN/CA9 gene. Zavada et ch that MN/CA9 gene is a oncogene whose expression is related to bad prognosis of preneoplastic/neoplastic disease at colt aims 1-24 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claim and correct or used in industry.	YI NO
Industrial applicability (IA)  Claims 1-24 Claims NONE  Citations and explanations:  aims 1-24 lack novely under PCT Article 33(2) as being anticipated by US 6,027,887 (Zavada et al). Zavada et al teach SE identical to the instant SEQ ID NO:1 recited in the instant claim 1, and is MN/CA9 cDNA from MN/CA9 gene. Zavada et ch that MN/CA9 gene is a oncogene whose expression is related to bad prognosis of preneoplastic/neoplastic disease at coh aims 1-24 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claim and correct or used in industry.	YI NO
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Form PCT/ISA/237 (Box No. V) (April 2005)